## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for creating a notarized document from a document, comprising:

acquiring image data of the document;

generating a document data file based on the image data, the document data file comprising an exemplar table that identifies position of an occurence of an exemplar and a block table;

determining connected components within the acquired image data;

grouping the connected components into exemplars;

creating the exemplar table based on the exemplarsidentifying location

information of at least one occurrence of an exemplar for each of the exemplars;

storing the location information in an exemplar table;

creating the block table based on the exemplars; and determining a block of the

connected components;

identifying the position of an occurrence of at least one of the exemplars within the block;

storing the position in a block table;

generating a document data file based on the image data, the document data

file comprising the exemplar table and the block table; and

appending the document data file to the document to form a notarized

document capable of being authenticated.

2. (Original) A method as recited in claim 1, further comprising:

digitally signing the document data file.

- 3. (Canceled)
- 4. (Original) A method as recited in claim 1, wherein creating the exemplar table comprises:

identifying a location of at least one occurrence of an exemplar for each of the exemplars;

determining a dimension of the at least one occurrence of the exemplar from the identifying step; and,

storing the location and the dimension of the at least one occurrence of the exemplar in the exemplar table.

- 5. (Canceled)
- 6. (Currently Amended) A method as recited in elaim 3claim 1, further comprising:

generating a fiducial point for each of the exemplars;
generating a fine tuning positioning command for at least one of the

exemplars;

storing the fiducial point in the exemplar table; storing the fine tuning positioning command in the block table; and combining and compressing the exemplar table and the block table.

7. (Original) A method as recited in claim 6, wherein generating the fiducial point comprises:

determining a block of the connected components; creating an exemplar histogram for each of the exemplars; creating a block histogram for the block; defining a baseline for the block;

determining a baseline crossing for each of the exemplars in the block; adding the baseline crossing for each of the exemplars to the respective exemplar histograms;

determining the median of the baseline crossing values contained in each of the exemplar histograms; and

designating the median of the baseline crossing values for each of the exemplar histograms as the fiducial point for the respective exemplar.

8. (Original) A method as recited in claim 6, further comprising:

determining a block of the connected components; and

creating an actual position table that stores actual positions of the connected

components on the document,

wherein generating fine tuning positioning commands comprises:

selecting at least one connected component of the connected components in the block;

determining the position of the at least one connected component;

comparing the position of the at least one connected component to a

position of the corresponding connected component in the actual position table to determine

if there is a difference; and

if there is a difference, adding position tuning commands to the block table for the exemplar that corresponds to the selected connected component to correct for the difference.

9. (Currently Amended) An apparatus that creates a notarized document from a document, comprising:

a controller;

a memory that stores image data of the document;

a connected components determining circuit that determines connected components based on the image data;

a connected components grouping circuit that groups the connected components into a plurality of groups and generates an exemplar for each of the groups;

an exemplar table generation circuit that generates an exemplar table by identifying positions of an occurrence for each of the exemplars;

a block table generation circuit that generates a block table by identifying blocks of the connected components and determining the position of each occurrence for each of the exemplars in each of the blocks;

a fiducial point generation circuit that generates a fiducial point for each of the exemplars and adds the fiducial point for each of the exemplars to the exemplar table; and

a data appending circuit that appends the exemplar table and the block table to the document to create a notarized document capable of being authenticated,

wherein the controller operates the connected components determining circuit, the connected components grouping circuit, the exemplar table generation circuit, the block table generation circuit, the fiducial point generation circuit and the data appending circuit.

- 10. (Original) An apparatus as recited in claim 9, further comprising a digital signing circuit that digitally signs the block table and the exemplar table.
- 11. (Original) An apparatus as recited in claim 9, further comprising a position tuning circuit that adds positioning commands to the block table for each of the blocks based on a comparison of a placement of each of the connected components derived from the block table and the exemplar table to positions of the connected components.

12. (Original) An apparatus as recited in claim 9, wherein:

the fiducial point generation circuit generates the fiducial point for each of the exemplars by:

creating an exemplar histogram for the exemplars; generating a block histogram for each of the blocks;

determining a baseline crossing for each of the exemplars in each of

the blocks;

adding the baseline crossings for each of the exemplars to the respective exemplar histograms;

defining a baseline for each of the blocks;

determining the median of the baseline crossings in each of the exemplar histograms; and

designating the median of the baseline crossings for each of the exemplar histograms as the fiducial point for the respective exemplar.

- 13. (Original) An apparatus as recited in claim 9, further comprising an image data source that provides the image data to the memory.
- 14. (Original) An apparatus as recited in claim 9, further comprising an input device that provides commands to the controller.
- 15. (Original) An apparatus as recited in claim 9, further comprising a printer that prints the notarized document.
- 16. (Original) An apparatus as recited in claim 9, further comprising a display that displays the notarized document.
- 17. (Currently Amended) An apparatus that verifies the authenticity of a notarized document, comprising:

a controller;

a memory that stores image data of the notarized document that includes a document data file containing an exemplar table and a block table;

a data reading circuit that reads the document data file and outputs to the memory anthe exemplar table and athe block table of the document data file;

a decompression circuit that constructs a verifying document image using the exemplar table and the block table; and

a comparing circuit that compares the verifying document image to the image data of the notarized document and determines that the notarized document is not genuine if there are discrepancies between the verifying document image and the image data of the notarized document.

18. (Original) An apparatus, as recited in claim 17, further comprising a verifying circuit that verifies a digital signature of the document data file.